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E.S. Putna, J.M. Vohs and R.J. Gorte, Oxygen desorption from α-Al_2O_3 (0001) supported Rh, Pt and Pd particles 391 (1997) L1178

J.M. Guevremont, D.R. Strongin and M.A.A. Schoonen, Effects of surface imperfections on the binding of CH_3OH and H_2O on FeS_2(100): using adsorbed Xe as a probe of mineral surface structure 391 (1997) 109

G. Wu and W.T. Tysoe, The surface chemistry of propylene adsorbed on Mo(100), oxygen-covered Mo(100) and MoO_2 391 (1997) 134

Work function measurements

R.W. Verhoef and M. Asscher, The work function of adsorbed alkalis on metals revisited: a coverage-dependent polarizability approach 391 (1997) 11

S.M. Driver, J. Lüdecke, R.J. Dixon, P.B.J. Thompson, G. Scragg, D.P. Woodruff and B.C.C. Cowie, Alkali-promoted oxidation of Al(111): Rb/O and K/O coadsorption and the role of surface structure 391 (1997) 300

X-ray scattering, diffraction, and reflection

A. Atrei, U. Bardi and G. Rovida, Structure and composition of the titanium oxide layers formed by low-pressure oxidation of the $Ni_{94}Ti_6$(110) surface 391 (1997) 216

S.M. Driver, J. Lüdecke, R.J. Dixon, P.B.J. Thompson, G. Scragg, D.P. Woodruff and B.C.C. Cowie, Alkali-promoted oxidation of Al(111): Rb/O and K/O coadsorption and the role of surface structure 391 (1997) 300

PHENOMENA

Adsorption kinetics

J.F. Weaver, J.A. Stinnett and R.J. Madix, Molecular dynamics simulations for xenon adsorption on Pt(111): dynamical differences in the effects produced by the Barker–Rettner and Morse potentials 391 (1997) 150

Atom–solid interactions

A.V. Zotov, A.A. Saranin, K.V. Ignatovich, V.G. Lifshits, M. Katayama and K. Oura, Si(100)4 × 3-In surface phase: identification of silicon substrate atom reconstruction 391 (1997) L1188

J.F. Weaver, J.A. Stinnett and R.J. Madix, Molecular dynamics simulations for xenon adsorption on Pt(111): dynamical differences in the effects produced by the Barker–Rettner and Morse potentials 391 (1997) 150

Catalysis

E.S. Putna, J.M. Vohs and R.J. Gorte, Oxygen desorption from α-Al_2O_3 (0001) supported Rh, Pt and Pd particles 391 (1997) L1178

M. Klimenkov, S. Nepijko, H. Kuhlenbeck, M. Bäumer, R. Schlögl and H.-J. Freund, The structure of Pt-aggregates on a supported thin aluminum oxide film in comparison with unsupported alumina: a transmission electron microscopy study 391 (1997) 27

W.C.A.N. Ceelen, A.W. Denier van der Gon, J. Falta, A. Hille and G. Materlik, K adsorption on Fe(100) studied by X-ray standing waves 391 (1997) 59

L.M. Sander and S.V. Ghaisas, Monte Carlo simulations of oscillations in the oxidation of CO on Pt at atmospheric pressure 391 (1997) 125

Chemisorption

G. Wu and W.T. Tysoe, The surface chemistry of propylene adsorbed on Mo(100), oxygen-covered Mo(100) and MoO_2 391 (1997) 134

M. Kaltchev, A.W. Thompson and W.T. Tysoe, Reflection–adsorption infrared spectroscopy of ethylene on palladium(111) at high pressure 391 (1997) 145

J.-Z. Que, M.W. Radney and P.V. Smith, Hartree–Fock–DFT cluster calculations of the Si(111)7 × 7:H system 391 (1997) 161

M. Gierer, A. Barbieri, M.A. Van Hove and G.A. Somorjai, Structural reanalysis of the Rh(111)+($\sqrt{3}\times\sqrt{3}$)R30°-CO and Rh(111)+(2×2)-3CO phases using automated tensor LEED 391 (1997) 176

M. Bäumer, M. Frank, J. Libuda, S. Stempel and H.-J. Freund, Growth and morphology of Rh deposits on an alumina film under UHV conditions and under the influence of CO 391 (1997) 204

Y.-C. Chao, L.S.O. Johansson and R.I.G. Uhrberg, Photoemission study of Na growth on the Si(100)c(4 × 2) surface at low temperature 391 (1997) 237

S.M. Driver, J. Lüdecke, R.J. Dixon, P.B.J. Thompson, G. Scragg, D.P. Woodruff and B.C.C. Cowie, Alkali-promoted oxidation of Al(111): Rb/O and K/O coadsorption and the role of surface structure 391 (1997) 300

Epitaxy

M. Klimenkov, S. Nepijko, H. Kuhlenbeck, M. Bäumer, R. Schlögl and H.-J. Freund, The structure of Pt-aggregates on a supported thin aluminum oxide film in comparison with unsupported alumina: a transmission electron microscopy study 391 (1997) 27

A. Daniluk, P. Mazurek, K. Paprocki and P. Mikołajczak, RHEED intensity oscillations observed during the growth of YSi_{2-x} on Si(111) substrates 391 (1997) 226

Friction

C.F. McFadden and A.J. Gellman, Metallic friction: the influence of atomic adsorbates at submonolayer coverages 391 (1997) 287

Growth

M. Bäumer, M. Frank, J. Libuda, S. Stempel and H.-J. Freund, Growth and morphology of Rh deposits on an alumina film under UHV conditions and under the influence of CO 391 (1997) 204

A. Daniluk, P. Mazurek, K. Paprocki and P. Mikołajczak, RHEED intensity oscillations observed during the growth of YSi_{2-x} on Si(111) substrates 391 (1997) 226

Y.-C. Chao, L.S.O. Johansson and R.I.G. Uhrberg, Photoemission study of Na growth on the Si(100)c(4 × 2) surface at low temperature 391 (1997) 237

Ion bombardment

V. Martinelli, L. Šiller, M.G. Betti, C. Mariani and U. del Pennino, Surface modification of InAs(110) surface by low energy ion sputtering 391 (1997) 73

Oxidation

X.-C. Guo and R.J. Madix, Origin of vinylic C–H bond activation in the combustion of alkenes on palladium: an HREELS study of propene on Pd(100)-p(2 × 2)-O 391 (1997) L1165

A. Atrei, U. Bardi and G. Rovida, Structure and composition of the titanium oxide layers formed by low-pressure oxidation of the $Ni_{94}Ti_6$(110) surface 391 (1997) 216

S.M. Driver, J. Lüdecke, R.J. Dixon, P.B.J. Thompson, G. Scragg, D.P. Woodruff and B.C.C. Cowie, Alkali-promoted oxidation of Al(111): Rb/O and K/O coadsorption and the role of surface structure 391 (1997) 300

Photoelectron emission

Y.-C. Chao, L.S.O. Johansson and R.I.G. Uhrberg, Photoemission study of Na growth on the Si(100)c(4 × 2) surface at low temperature 391 (1997) 237

Photon stimulated desorption

J.M. Chen, S.C. Yang and Y.C. Liu, Ion desorption processes following core-level excitation of substrate and adsorbate 391 (1997) 278

Physical adsorption

W.C.A.N. Ceelen, A.W. Denier van der Gon, J. Falta, A. Hille and G. Materlik, K adsorption on Fe(100) studied by X-ray standing waves 391 (1997) 59

J.M. Guevremont, D.R. Strongin and M.A.A. Schoonen, Effects of surface imperfections on the binding of CH_3OH and H_2O on FeS_2(100): using adsorbed Xe as a probe of mineral surface structure 391 (1997) 109

Surface chemical reaction

S.K. Shaikhutdinov, A. Schaak and R. Imbihl, Formation of low work function patches in the NO + H_2 reaction on a roughened Rh(110) surface 391 (1997) L1172
Q. Ma and R.A. Rosenberg, Interaction of Al clusters with the (0001) surface of highly oriented pyrolytic graphite 391 (1997) L1224
G. Contini, V. Di Castro, G. Polzonetti, G. Comelli, B. Brena and A.M. Marabini, Evidence of two adsorption phases of 5-methyl-2-mercaptobenzoxazole on Cu_2S by synchrotron radiation photoemission 391 (1997) 65
M. Gierer, A. Barbieri, M.A. Van Hove and G.A. Somorjai, Structural reanalysis of the Rh(111)+($\sqrt{3}\times\sqrt{3}$)R30°-CO and Rh(111)+(2×2)-3CO phases using automated tensor LEED 391 (1997) 176

Surface diffusion

A.K. Swan, Z.-P. Shi, J.F. Wendelken and Z. Zhang, Flux-dependent scaling behavior in Cu(100) submonolayer homoepitaxy 391 (1997) L1205
I.I. Suni, Effect of three-body dispersion interactions on the surface dynamics of Ar(111) 391 (1997) L1212
J. McCoy and L.D. Roelofs, The stability of asperities on W(001) 391 (1997) L1235
J. Sanchez, D.P. Quinn and M.C. Tringides, The use of Boltzmann–Matano analysis in two-dimensional concentration profiles 391 (1997) 101
A.J. Ramirez-Pastor, M. Nazzarro, J.L. Riccardo and V. Pereyra, Surface diffusion of dimers: I repulsive interactions 391 (1997) 267

Surface electronic phenomena (work function, surface potential, surface states, etc.)

E.V. Chulkov, V.M. Silkin and P.M. Echenique, Image potential states on lithium, copper and silver surfaces 391 (1997) L1217
J. McCoy and L.D. Roelofs, The stability of asperities on W(001) 391 (1997) L1235
V. Martinelli, L. Šiller, M.G. Betti, C. Mariani and U. del Pennino, Surface modification of InAs(110) surface by low energy ion sputtering 391 (1997) 73
J.M. Guevremont, D.R. Strongin and M.A.A. Schoonen, Effects of surface imperfections on the binding of CH_3OH and H_2O on FeS_2(100): using adsorbed Xe as a probe of mineral surface structure 391 (1997) 109
A.N. Smogunov, L.I. Kurkina, S.I. Kurganskii and O.V. Farberovich, Electronic structure of simple metal whiskers 391 (1997) 245

Surface energy

D. Zhao and D. Haneman, Thermoelectric voltages from Si cleavages 391 (1997) L1230
S.C. Wang and G. Ehrlich, Equilibrium shapes and energetics of iridium clusters on Ir(111) 391 (1997) 89

Surface melting

I.I. Suni, Effect of three-body dispersion interactions on the surface dynamics of Ar(111) 391 (1997) L1212

Surface relaxation and reconstruction

M. Gierer, A. Barbieri, M.A. Van Hove and G.A. Somorjai, Structural reanalysis of the Rh(111)+($\sqrt{3}\times\sqrt{3}$)R30°-CO and Rh(111)+(2×2)-3CO phases using automated tensor LEED 391 (1997) 176

Surface segregation

T. Suzuki, S. Hishita, K. Oyoshi and R. Souda, Segregation of Eu implanted at the MgO(100) surface 391 (1997) L1243

Surface structure, morphology, roughness, and topography

A.V. Zotov, A.A. Saranin, K.V. Ignatovich, V.G. Lifshits, M. Katayama and K. Oura, Si(100)4 × 3-In surface phase: identification of silicon substrate atom reconstruction 391 (1997) L1188
A.K. Swan, Z.-P. Shi, J.F. Wendelken and Z. Zhang, Flux-dependent scaling behavior in Cu(100) submonolayer homoepitaxy 391 (1997) L1205
M. Stichler and D. Menzel, The geometry of the saturated (2 × 2)-NO adlayer on Ru(001): a structure with three different sites 391 (1997) 47
J.M. Guevremont, D.R. Strongin and M.A.A. Schoonen, Effects of surface imperfections on the binding of CH_3OH and H_2O on FeS_2(100): using adsorbed Xe as a probe of mineral surface structure 391 (1997) 109
M. Gierer, A. Barbieri, M.A. Van Hove and G.A. Somorjai, Structural reanalysis of the Rh(111)+($\sqrt{3}\times\sqrt{3}$)R30°-CO and Rh(111)+(2×2)-3CO phases using automated tensor LEED 391 (1997) 176
M.W. Bench, P.G. Kotula and C.B. Carter, Influence of the nature of the (0001) alumina surface on thin film growth 391 (1997) 183
A. Atrei, U. Bardi and G. Rovida, Structure and composition of the titanium oxide layers formed by low-pressure oxidation of the $Ni_{94}Ti_6$(110) surface 391 (1997) 216
Y.-C. Chao, L.S.O. Johansson and R.I.G. Uhrberg, Photoemission study of Na growth on the Si(100)c(4 × 2) surface at low temperature 391 (1997) 237
F.J. Williams, J.R. Sánchez and C.M. Aldao, Monte Carlo simulations of monatomic steps dynamics on Si(100)-(2 × 1) 391 (1997) 260

Surface thermodynamics (including phase transitions)

S.C. Wang and G. Ehrlich, Equilibrium shapes and energetics of iridium clusters on Ir(111) 391 (1997) 89

Thermal desorption

E.S. Putna, J.M. Vohs and R.J. Gorte, Oxygen desorption from α-Al_2O_3 (0001) supported Rh, Pt and Pd particles 391 (1997) L1178

S. Nettesheim, M. Handschuh and R. Zenobi, Comment to: A. Baraldi et al., Surf. Sci. 367 (1997) L67. Temperature programmed X-ray photoelectron spectroscopy: a new technique for the study of surface kinetics
391 (1997) L1249

D.Yu. Zemlyanov, M.Yu. Smirnov and V.V. Gorodetskii, NH_2 formation in the reaction of H_{ads} with NO on the Pt(100)-(1 × 1) surface
391 (1997) 37

Tribology

C.F. McFadden and A.J. Gellman, Metallic friction: the influence of atomic adsorbates at submonolayer coverages
391 (1997) 287

Vibrations of adsorbed molecules

D.Yu. Zemlyanov, M.Yu. Smirnov and V.V. Gorodetskii, NH_2 formation in the reaction of H_{ads} with NO on the Pt(100)-(1 × 1) surface 391 (1997) 37